Specifications

SpO₂:

Measurement Range: 0 ~ 100%

Accuracy: ±2% during 70%~100%

0%~69% unspecified

Pulse Rate:

Measurement Range: 25 bpm ~ 300 bpm 1 bpm or $\pm 2\%$ Accuracy: whichever is greater

EtCO2:

Measurement Range: 0~150mmHg

Resolution: 0.1mmHg (0~69)mmHg (70~150)mmHg 0.25mmHg

Accuracy: ± 2 MmHg (0~40)mmHg $\pm 5\%$ (41~70)mmHg $\pm 8\%$ (71~100)mmHg

(101~150)mmHg $\pm 10\%$

Warm-up Time: 10 seconds

Response Time: 8mS

Respiration Rate:

Measurement Range: 0~150bpm ± 1 bpm Accuracy:

Alarm:

Three levels of visual, audio alarms

Data Transmission:

2.4GHz wireless USB to PC

≤10m without obstruction

Power Requirements:

DC: 9V 700mA

4x2400mAh rechargeable batteries Battery Capacity: ≥ 12 hours (SpO₂ only) Battery Capacity: ≥ 4.5hours (SpO2 + CO2)

Environment:

Operating Temperature: 0°C~50°C Humidity: ≤95% Altitude: -390m~5,000m

Transport/Storage Temperature: -20°C~70°C

Humidity: ≤95%

Physical Characteristics:

Dimensions: 73mm (W) x127mm (H) x 23mm (D)

Maximum Weight: 500g

Compliance:

1. SpO₂: ISO 9919: 2005(E)

2. Safety Standards:

EN 60601-1: 1990+A1: 1993+A2: 1995+A13: 1996

3. Alarm: IEC60601-1-8: 2005

4. EMC: EN 60601-1-2: 2007, Group 1 Class A

5. Environment: WEEE (2002/96/EC)

Display Options









Large Font/Digits

Dural Waveforms

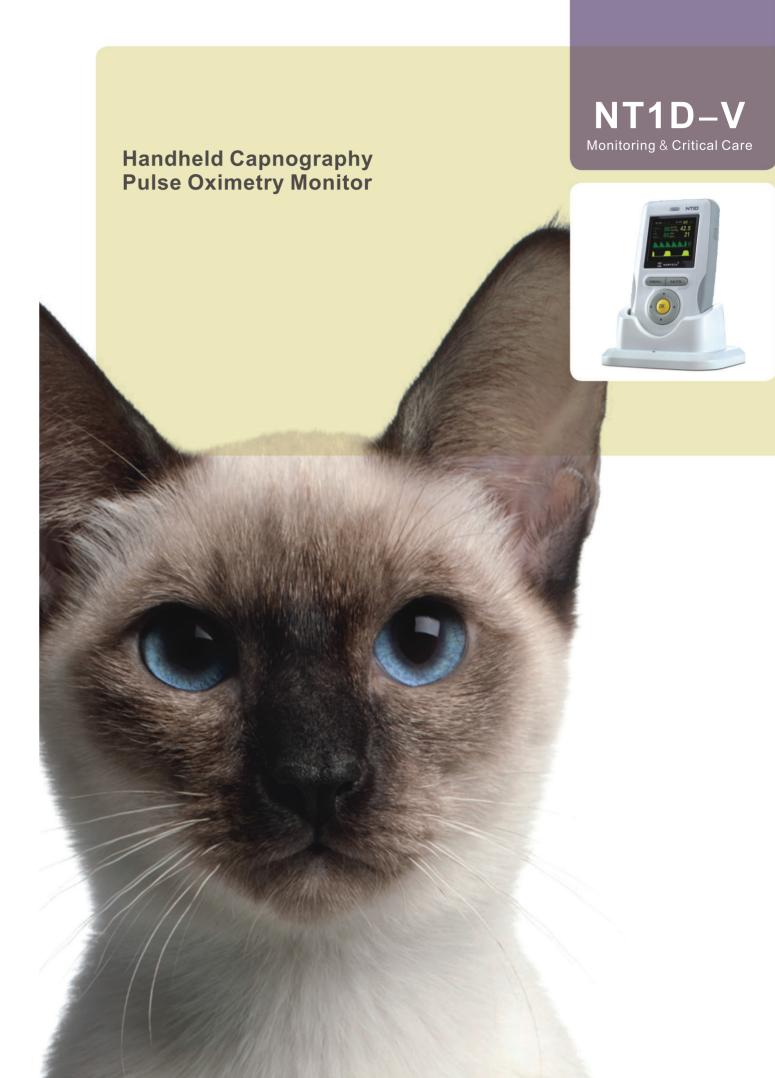
Historical Trend

Trend Chart

Configurations

NT1D-V-B Handheld Mainstream CO2 Monitor NT1D-V-C Handheld Sidestream CO2 Monitor

NT1D-V-D Handheld SpO2 & Mainstream CO2 Monitor NT1D-V-E Handheld SpO2 & Sidestream CO2 Monitor



Handheld Capnogrphy/Pulse Oximetry Monitor Compact, Reliable and High Performance

Vital Signs monitoring in anesthetized animals

- ◆ Measures EtCO2, respiration rate, SpO2 (optional) and pulse rate
- ◆ About the size of a smartphone
- ◆ New, high-definition, bright color screen
- ◆ Choose between mainstream or sidestream CO2
- ◆ Diagnostic CO2/SpO2 waveforms
- ◆ Audible/visual physiological and technical alarms
- ◆ User adjustable alarm limits
- Pre-set alarm limits for cats, dogs and horses
- ◆ Three-hour graphical trend review
- ◆ Up to 99 patient lds
- ◆ Operates on four "AA" NiMH 2400mAh 2500mAh rechargeable batteries (>4.5 hrs) or AC power



While pulse oximeters monitor oxygen saturation in anesthetized animals, hypercapnia occurs more commonly than hypoxemia. Affordable, portable monitors are available to measure exhaled CO2.

Low ETCO2 levels are most commonly a result of hyperventilation or diluted exhaled carbon dioxide caused by high oxygen flow rates such as those used with non-rebreathing systems. Sudden significant reductions in ETCO2 can be due to airway occlusion, ET tube dislodgement, disconnection or cardiac arrest. Capnometers are also useful during CPR to determine ETCO2 production as an indicator of return of CO2 production and blood flow through the lungs.

NT1D puts the ultimate "anesthesia disaster early warning system" into the palm of your hand.

NT1D is compact and portable, with a crisp highdefinition color screen and the choice between mainstream and sidestream CO2 combined with digital pulse oximetry. It's designed to provide immediate clinical feedback of actual expired CO2. The NT1D helps provide critical information during anesthesia, such as anesthetic depth, cardiac output and perfusion, and reliable respiration.



Sidestream CO2 module sampling at <50 mm/sec. Perfect for your smallest patients or horses with large



Solid-state, durable mainstream CO2 probe for intubated patients



CO2 kits include sampling tubes and adapters in two sizes to help minimize dead space for safer, more accurate readings. Sidestream sample lines have built-in filters for moisture management without messy water traps.



Solaris pulse ox sensors include durable non-slip clips in two size, and we include a 10 ft. extension cable. Most frequently applied to the tongue, they can also be used on the lip, ear, toewebbing, prepuce or vulva.

Normal ETCO2 levels are 35-45 mmHg. The most common cause of increased ETCO2 is hypercapnia secondary to anesthetic-induced hypoventilation. Normal healthy animals can tolerate some increase in carbon dioxide levels (up to 60-70 mmHg) without suffering detrimental effects. Extremely high carbon dioxide levels (> 100 mmHg) can cause narcosis and exacerbate deep levels of anesthesia. The simplest way to correct high ETCO2 is to simply ventilate ("bag") the animal more frequently.

